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Author	L. Latronico
Verified by	A. Rocchi
Approved by	A. Variola

PBS Parameters Status and prospects

ET Annual Meeting

Paris – November 15 2023

Outline

- Parameters – what are they
- Collecting parameters – how and when
- Using parameters – where and who

Parameters – basic info

- PBS is the reference and starting point for this work
 - ordered list of all ET basic elements
 - broken into 3 PBS (Interferometer, Civil infrastructure, Computing infrastructure)
 - Complete, no duplicates
 - Refer to <https://wiki.et-gw.eu/Main/PBSWorkingGroup/WebHome>
- Parameters provide a complete and accurate description of each element of the PBS
 - Grouped into Functional (eg mirror coating material), Integration (eg dimension) and functional interface (eg power)
 - Refer to <https://wiki.et-gw.eu/Main/ParamWorkingGroup/WebHome> (in progress)
- This description (PBS + parameters) is not frozen, but it is traceable!

Parameters collection basics

- Definition is responsibility of key people in the ET Collaboration
 - Point Of Contact (POC) list still TBD
 - Alessio Rocchi, as Technical Coordinator, is the PO POC
- Collection of information must rely on distributed template (xls format)
 - Can be parsed / read-in, but might change in the future (we will take care of porting)
- Parameter file name shall comply to agreed format (distributed last August)
 - PAR_`[System code]`_`[PBS code]` where
 - PAR is a fixed prefix
 - System code refers to the actual PBS [EIB / HFI / LFI / SCE / UCE / UTI]
 - PBS code is the PBS item code

Parameters collection basics

- Parameter file shall be uploaded to allocated server (read-only) (distributed last October)
 - in the appropriate system folder, eg
 - EIB - E-Infrastructure Board
 - HFI - High Frequency Interferometer
 - LFI - Low Frequency Interferometer
 - SCE - Surface Civil Engineering
 - UCE - Underground Civil Engineering
 - UTI - Underground Technical Infrastructure
 - Currently still empty, not surprisingly since POC are not defined
- Parameter storage shall rely on a relational database
 - Proof of concept demonstration with MSAccess performed
 - Will rely on dedicated IT resource to choose the best tool and manage it

Parameters WG roadmap - discussion

- Prerequisites
 - Need list of POC to kick-start process!
 - It is a technical recognition, not a commitment for delivery
 - Names can change
 - Configurations must cover both triangle and 2L layouts
 - Must sync with main ET-PP schedule – eg preliminary TDR release set to 8/2024
- A possible development path (similar to PBS WG)
 - Few monthly face-to-face general meetings + ad-hoc discussions